

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251245

Serial No.
Name of Work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6	7	8
	Plan of the Work :- Improvement to <u>Challu</u> at <u>Kotcheram</u> to <u>tripple</u> surrounding area in ward NO-10 (<u>Poddaboinmalu</u>) <u>Wijayapura</u> Sub division. Estimated cost :- Rs 35.00 lakhs.						
	ADB number :- 010-18-000048, <u>Head 9</u> Account :- P18#8.						
	Name of the Contract :- EXECUTIVE ENGINEER, K R I D L, # 280, 5 th Cross road, 1 st Ph. / main road, 2 nd ay, 810th, <u>Agarwal</u> area. Dampale - 560010.						
	WORK order NO :- BBNP/EE/BTD/NO/60/2018-19 <u>Order</u> :- 23-07-2018.						

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	① Earthwork Excavation by manual means in ordinary soil and an average width up to 0.50m, Extra vertical levelled and sides neatly after breaking of scale etc. complete as per specification and depth of 1m in charge of the work. As per measurement wide of MB NO - 2513 of Age no - 251297					involving an average width up to 0.50m, Extra vertical earth to be levelled after breaking of scale etc. complete as per specification and depth of 1m in charge of the work. 100.80m	
	② providing and laying in position plain Cement concrete mix 1:4:8, with 10% cement 180 kg with 40mm and down size graded granite metal coarse aggregate 0.5% cement and fine 95% sand 15mm thick well compacted in foundations laid in layers not exceeding 15cm and finish including cost of materials, labor etc. complete as per specification. As per measurement wide of MB NO - 2513 of Age no - 251298					20095 = 00 75.60m	

Serial No.	Name of Work	Rate of Contractor of nature of Agency	Date of commencement of work
	Full description, etc, of work	2	Number 3
	(Cement Concrete pavement for wheel pavement thickness as per contract @ every other type with 25 mm and down size granular Superplasticizer @ 3 lts contained in a concrete mixer Kanpama 40 1st 953 - 1 x 3 1800		1800

Dimensions			Contents	Reference to last Measurement
Breadth	Depth			
5	6		7	8
Ordinary well average with up to 0.5m, 8 (average) in approx earth to be levelled for open latrines and dumble				
199.36			100.80m ³	20095 = 00
(m) 1:1 mix 1:4:8, with 10% coarse granite metal coarse aggregate machine mixed concrete packed in 80 undations well compacted above floor				75.60m ³

Dimensions			Contents	Reference to last Measurement
Number	Length	Breadth		
3	4	5	6	7
net surface				
100.80m ³				75.60m ³
199.36				20095 = 00
(m) 1:1 mix 1:4:8, with 10% coarse granite metal coarse aggregate machine mixed concrete packed in 80 undations well compacted above floor				75.60m ³

III. A. N. S. (Kale 110) Measurement Book

No. 3

251246

Station	Contents		Reference to last Measurement
	Depth		
199.36	5	100.80m	8
	6		

Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
1. Concrete pavement 150m x 4m x 0.15m 2. 5mm and down big granular metal coarse aggregate 150m x 4m x 0.15m 3. Superplasticizer 150m x 4m x 0.15m 4. Ma (maute mixer) 150m x 4m x 0.15m 5. Kumpama 4m x 4m x 0.15m	1 1 1 1 1	4 4 4 4 4	5 5 5 5 5	0.15 0.15 0.15 0.15 0.15	150m x 4m x 0.15m = 360m³ 150m x 4m x 0.15m = 360m³ 150m x 4m x 0.15m = 360m³ 150m x 4m x 0.15m = 360m³ 150m x 4m x 0.15m = 360m³	360m³ 360m³ 360m³ 360m³ 360m³

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1x	5.80x	$\frac{4.0+4.1}{2}$	20.125		~~30.19~~ 8
		1x	30x	$\frac{4.1+4.1}{2}$	20.125		~~2.94~~ m ³
		1x	29.50x	$\frac{4.1+4.0}{2}$	20.125		~~15.38~~ m ³
			Net Quantity				~~14.93~~ m ³
			Quantity limited to				~~63.43~~ m ³
							~~63.00~~ m ³
							~~34.7056~~ = 00
							for 34.7056 = 00
							mat and comparison
							for generators,
							and dis etc.,
							complete.
							171 (3800)

① Vacuum de-watering with vacuum pump and suction with skin filter clubbed with twisting disc including cost of generators, pump machinery, 16 speed vibratory, power of water, blade and dis etc., complete and line item in 171 (3800)

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Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Full description, etc, of work
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Number
3

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BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B

251247

From To
Contractor of nature of Agency
of commencement of work

Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
<i>cf. memo</i>	1x	30x	$(4.1 + \frac{4.0}{2})$	=	121.50m ²	
	1x	30x	$(4.0 + \frac{4.0}{2})$	=	120.00m ²	
	1x	5.8x	$(4.0 + \frac{4.1}{2})$	=	23.49m ²	
	1x	30x	$(4.1 + \frac{4.1}{2})$	=	123.00m ²	
	1x	29.5x	$(4.1 + \frac{4.0}{2})$	=	119.48m ²	
				Net Area	=	507.47 m ²

Contents	Reference to last Measurement
7	30-19
$\frac{0.4 + 4.1}{2} \times 0.125 =$	2.94 m ³
$\frac{1 + 4.1}{2} \times 0.125 =$	15.38 m ³
$\frac{4.1 + 4.0}{2} \times 0.125 =$	14.92 m ³
Netty	= 63.43 m ³
Limited to	= 63.00 m ³
20.5508.81 of 347056.00	
and Surion mat and Conquillo	
including cost of generators,	
water, blade and dis-etc.,	
Complete.	

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Serial No.	Name of Work	Name of Contractor of nature of Agency	Date of commencement of work	From
	Full description, etc., of work	2	Number	3
	and timely dusting with old and new bituminous treatment, including machinery etc., complete as per requirements & Shoddy and Scum sheet	10	10	10
	10-20 m width lane near H.P. overpass	10	10	10

NT BOOK

Dimensions			Contents	Reference to last Measurement
Breadth	Depth			
5	6		7	8
			$= 504.00 \text{ m}^2$	
5.40			Rs 48082 =	
providing layers, spreading and white/cryst/leap to wet mix is the material with water @ mixed method to tipped to fill base -/base course or full masonry rubble - the adhesive specifications and directed on it 299 } 414.00 m^2 Rs. 1768.08 take with process - soft bonded				

M. A. R. 57 (Rule 116) Measurement Book

No. B

From..... To.....
 of Contractor of nature of Agency
 of commencement of work

251248

Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	
2		3	4	5	6	7
Apply dusting with old gummy bags and/or Compressed air to receive and bituminous treatment including (or) all materials, labor, item of machinery etc., complete as per specifications and directions given in drawing thereon 1 x 30 x $\left(\frac{5.6 + 5.5}{2} \right) = 166.50 \text{ m}^2$ 1 x 30 x $\left(\frac{5.5 + 5.4}{2} \right) = 163.50 \text{ m}^2$ 1 x 30 x $\left(\frac{5.4 + 5.6}{2} \right) = 165.00 \text{ m}^2$ 1 x 30 x $\left(\frac{5.6 + 5.5}{2} \right) = 166.50 \text{ m}^2$						8

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		~~1x~~	~~$30 \times (5.5 + \frac{5.5}{2})$~~		~~$= 165.00 m^2$~~	~~$165.00 m^2$~~	
		~~1x~~	~~$30 \times (5.5 + \frac{5.4}{2})$~~		~~$= 163.50 m^2$~~	~~$163.50 m^2$~~	
		~~1x~~	~~$30 \times (5.4 + \frac{5.6}{2})$~~		~~$= 165.00 m^2$~~	~~$165.00 m^2$~~	
		~~1x~~	~~$30 \times (5.6 + \frac{5.5}{2})$~~		~~$= 166.50 m^2$~~	~~$166.50 m^2$~~	
		~~1x~~	~~$10.30 \times (5.5 + \frac{5.5}{2})$~~		~~$= 56.65 m^2$~~	~~$56.65 m^2$~~	
		~~1x~~	~~$30 \times (5.1 + \frac{5.9}{2})$~~		~~$= 180.00 m^2$~~	~~$180.00 m^2$~~	
		~~1x~~	~~$30 \times (5.9 + \frac{5.8}{2})$~~		~~$= 175.50 m^2$~~	~~$175.50 m^2$~~	

Serial No.
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Full description, etc, of work

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NT BOOK

Dimensions			Contents	Reference to last Measurement
Breadth	Depth			
5	6		7	8
$(5.5+5.5)$		$= 165.00 m^2$		
$(5.5+5.4)$		$= 163.50 m^2$		
$(5.4+5.6)$		$= 165.00 m^2$		
$(5.6+5.5)$		$= 166.50 m^2$		
$(5.5+5.5)$		$= 56.65 m^2$		
$(6.1+5.9)$		$= 180.00 m^2$		
$(5.9+5.8)$		$= 175.50 m^2$		

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No. B

251249

From To
 of Contractor of nature of Agency
 of commencement of work

Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
	Number	Length	Breadth	Depth	
	3	4	5	6	8
<i>Handwritten signature</i>	1x	30x	$(6.0 + \frac{6.1}{2})$		$= 181.50 m^2$
	1x	30x	$(5.8 + \frac{6.0}{2})$		$= 177.00 m^2$
	1x	30.8x	$(6.1 + \frac{6.0}{2})$		$= 186.34 m^2$
	Net quantity				$= 2278.49 m^2$
	- water, limited to				$= 2275.00 m^2$
			Rs 3.18		Rs 7235.00

NT BOOK

Dimensions			Contents	Reference to last Measurement
Breadth	Depth			
5	6		7	8
80/100 grade			bitumen (V6 10) on 100mm bedding bitumen in 60/100 grade subgrade including cost of 10mm bedded subgrade, complete as per specifications	
11.66			2275.00m ²	
we graded bitumen on mud dam			226527=00	
the mixed with V6 30 grade				
mix to work like layering to the				
ply with smooth wheeled vibrator				
compaction - as per NORTH Table				
as per specifications				
5.6+5.5			8.33m ³	

M. A. R. 57 (Rule 116) Measurement Book

No. B

251250

From To
Contractor of nature of Agency
of commencement of work

Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
	Number	Length	Breadth	Depth	
2	3	4	5	6	8
	1 x 30 x	$(5.5 + 5.4) \times 0.05$			$8.18m^3$
	1 x 30 x	$(5.4 + 5.6) \times 0.05$			$8.25m^3$
	1 x 30 x	$(5.6 + 5.5) \times 0.05$			$8.33m^3$
	1 x 30 x	$(5.5 + 5.5) \times 0.05$			$8.25m^3$
	1 x 30 x	$(5.5 + 5.4) \times 0.05$			$8.18m^3$
	1 x	$(5.4 + 5.6) \times 0.05$			$8.25m^3$

57.80

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	8
		1x	30x(5.6+5.5) 2		0.05	8.33 m ³
		1x	10.3x(5.5+5.5) 2		0.05	2.83 m ³
		1x	30x(6.1+5.9) 2		0.05	9.00 m ³
		1x	30x(5.9+5.8) 2		0.05	8.78 m ³
		1x	30x(5.8+6.0) 2		0.05	8.85 m ³
		1x	30x(6.0+6.1) 2		0.05	9.08 m ³
		1x	30.8x(6.1+6.0) 2		0.05	9.32 m ³

measured

(13.9)

Serial No.
Name of Work
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Date of commencement of work

Date	Full description, etc, of work	N
	Net Irrigation gravity	
	K. K. B. A. 50-17. Irrigation and gravity supply crushed aggregate of 3/4" size uniformly graded, and from 100% required grade, level and uniformity and tandem rollers, K. K. B. 50-10, complete in all	

To.....

From.

agency

Commencement of work

Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
Net material quantity	3	4	5	6	7	8
					$= 113.92 \text{ m}^3$ $= 113.75 \text{ m}^3$	
					@ Rs. 7176.20	Rs. 816293 = 00

Depth 6	Contents 57.80 7	Reference to last Measurement 8
	$5) \times 0.05 = 8.33 \text{ m}^3$	
	$5.5) \times 0.05 = 2.83 \text{ m}^3$	
	$9) \times 0.05 = 9.00 \text{ m}^3$	
	$8) \times 0.05 = 8.78 \text{ m}^3$	
	$7) \times 0.05 = 8.85 \text{ m}^3$	
	$) \times 0.05 = 9.08 \text{ m}^3$	
	$5.0) \times 0.05 = 9.32 \text{ m}^3$	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1	U/S 40-60 Capacity 4 m.p. 1/2" sensor. 4.5-1. Vb-30 Bitumen.	3	4	5	6	7	8
9	KS 40-50-7' providing and applying tack coat using 80/100 grade bitumen (Vb 10) on the prepared black topped surfaces @ 2.5 kg per sq. m. heaving bitumen in bairer filled with spray set (excl. including 10% material) complete corner measurement and smoothing as same as first of item no-4	3	4	5	6	7	8
10	providing and laying bituminous concrete 40mm thick with hot mix plant, roughed aggregate of specified size and filler, transporting the material further to the required grade, level and alignment,	3	4	5	6	7	8

Initial No.
 Date of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Site	Full description, etc, of work	Num
	2	3
	U/S 40-60 Capacity 4 m.p. 1/2" sensor. 4.5-1. Vb-30 Bitumen.	8
	KS 40-50-7' providing and applying tack coat using 80/100 grade bitumen (Vb 10) on the prepared black topped surfaces @ 2.5 kg per sq. m. heaving bitumen in bairer filled with spray set (excl. including 10% material) complete corner measurement and smoothing as same as first of item no-4	3
	providing and laying bituminous concrete 40mm thick with hot mix plant, roughed aggregate of specified size and filler, transporting the material further to the required grade, level and alignment,	3

U/S 40-60 Capacity 4 m.p. 1/2" sensor. 4.5-1. Vb-30 Bitumen.

KS 40-50-7' providing and applying tack coat using 80/100 grade bitumen (Vb 10) on the prepared black topped surfaces @ 2.5 kg per sq. m. heaving bitumen in bairer filled with spray set (excl. including 10% material) complete corner measurement and smoothing as same as first of item no-4

providing and laying bituminous concrete 40mm thick with hot mix plant, roughed aggregate of specified size and filler, transporting the material further to the required grade, level and alignment,

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1x	30x	$(\frac{5.6+5.5}{2})$	$\times 0.04 = 6.6m^3$		19-80
		1x	30x	$(\frac{5.5+5.5}{2})$	$\times 0.04 = 6.6m^3$		
		1x	30x	$(\frac{5.5+5.4}{2})$	$\times 0.04 = 6.54m^3$		
		1x	30x	$(\frac{5.4+5.6}{2})$	$\times 0.04 = 6.6m^3$		
		1x	30x	$(\frac{5.6+5.5}{2})$	$\times 0.04 = 6.6m^3$		
		1x	10.30x	$(\frac{5.5+5.5}{2})$	$\times 0.04 = 2.27m^3$		
		1x	30x	$(\frac{6.1+5.9}{2})$	$\times 0.04 = 7.20m^3$		

62-53

Serial No.
 Name of Work
 Name of Contractor of nature of Agency
 Date of commencement of work

Full description, etc, of work
 2

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BOOK

Dimensions	Contents	Reference to last Measurement
Length 5	Depth 6	
$\frac{6+5.5}{2} \times 0.04 = 6.66m^3$		
$\frac{5+5.5}{2} \times 0.04 = 6.60m^3$		
$\frac{5+5.4}{2} \times 0.04 = 6.54m^3$		
$\frac{4+5.6}{2} \times 0.04 = 6.60m^3$		
$\frac{5+5.5}{2} \times 0.04 = 6.65m^3$		
$\frac{5.5+5.5}{2} \times 0.04 = 2.27m^3$		
$\frac{1+5.9}{2} \times 0.04 = 7.20m^3$		

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

251253

Full description, etc, of work From To
 of Contractor of nature of Agency
 of commencement of work

Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
		Length 4	Breadth 5	Depth 6		
2	3	$1 \times 30 \times (\frac{5.9+5.8}{2})$		$\times 0.04 = 7.02m^3$	$62-33$	
	1	$1 \times 30 \times (\frac{5.8+6.0}{2})$		$\times 0.04 = 7.08m^3$		
	1	$1 \times 30 \times (\frac{6.0+6.1}{2})$		$\times 0.04 = 7.26m^3$		
	1	$1 \times 30.8 \times (\frac{6.1+6.0}{2})$		$\times 0.04 = 7.45m^3$		
		Net quantity			$= 91.14m^3$	

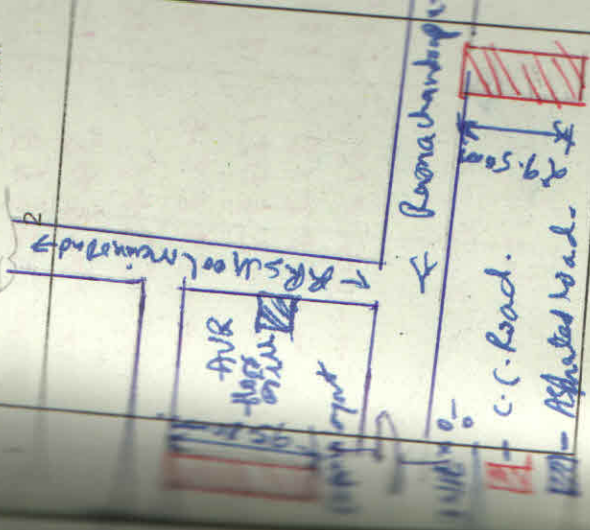
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Quality limited to					Rs. 91.00 m ³	
						Rs. 8118.54	Rs. 738787.00
						Rs. 3152607.00	
						Rs. 315261.00	
						Rs. 315265.00	
						Rs. 3499393.00	
						Rs. 26/9/2018	

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIIDL, BBMP, Bangalore

Serial No.
Name of Work
Name of Contractor of nature of Agency
Date of commencement of work

Full description, etc, of work



M. A. R. 57 (Rule 116)
Measurement Book

No. B

251254

Dimensions			Contents	Reference to last Measurement
Length	Breadth	Depth		
4	5	6	7	8
te		=	91.00 m ³	
Rs. 8118.54			Rs 73878.10	
sta			Rs 315260.10	
RDDL charge @ 10-1 = Rs			315261.00	
labour chrm @ 1.1. Rs			31526.00	
1 fcl			Rs 34993.98	
Bhuregy				
..			26/9/2018	

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Mr. J. S. C. 156

Serial No.	Full description, etc, of work
Name of Work	
Name of Contractor of nature of Agency	2
Date of commencement of work	

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 Hi Thirty one Cakya eleven group
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